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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/565,742	06/25/2007	Ajit Varki	00015-062US1/SD2003-123-1	2666
26138	7590	04/30/2009	EXAMINER	
Joseph R. Baker, APC			CHEU, CHANGHWA J	
Gavrilovich, Dodd & Lindsey LLP			ART UNIT	PAPER NUMBER
4660 La Jolla Village Drive, Suite 750			1641	
San Diego, CA 92122				
MAIL DATE		DELIVERY MODE		
04/30/2009		PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)	
	10/565,742	VARKI ET AL.	
	Examiner	Art Unit	
	JACOB CHEU	1641	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 16 January 2009.
 2a) This action is **FINAL**. 2b) This action is non-final.
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-21 is/are pending in the application.
 4a) Of the above claim(s) 1,11-13 and 19-21 is/are withdrawn from consideration.
 5) Claim(s) _____ is/are allowed.
 6) Claim(s) 2-10 and 14-18 is/are rejected.
 7) Claim(s) _____ is/are objected to.
 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.
 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892)
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
 3) Information Disclosure Statement(s) (PTO/SB/08)
 Paper No(s)/Mail Date 1/3/2008.

4) Interview Summary (PTO-413)
 Paper No(s)/Mail Date. _____.
 5) Notice of Informal Patent Application
 6) Other: _____.

DETAILED ACTION

Election/Restrictions

1. Applicant's election without traverse of group II, claims 14-18 in the reply filed on 1/16/2009 is acknowledged. Applicant also amended claims 2-10 and 21 depending on claim 14. However, in view of the newly amended claims, particularly claim 21, which directs to monitoring a disease, was originally presented in group VI. The Restriction Requirement has indicated its distinctiveness from other groups.
2. Therefore, currently claims 2-10 and 14-18 are under examination.
3. Claims 1-21 are pending. Claims 1, 11-13, 19-21 are withdrawn from further consideration.

Claim Rejections - 35 USC § 112

4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
5. Claims 2-10 and 14-18 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

With respect to claim 14, it is not clear why step (b), in viewing of the claim language, cannot be used to determine anti-Neu5Gc alone. The preamble indicates the purpose of the claimed method, namely measuring an amount of anti-Neu5Gc antibody in a biological sample. Step (a) recites a step of measuring anti-Neu5Ac which does not

connect to the anti-Neu5Gc antibody. It is believed that step (b) should be determining both the anti-Neu5Gc and anti-Neu5Ac antibodies. Accordingly, step (c) should be corrected.

With respect to claim 15, it is not clear why such step using the SAME antigen as in claim 14.

Scope of Enablement

6. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

7. Claims 14-18, 2-6, 8-10 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for fluid biological samples, does not reasonably provide enablement for any biological materials. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to use the invention commensurate in scope with these claims.

It is noted that the instant invention directs to a method of measuring Neu5Gc antibody in a biological samples. It is known that the antibodies exist in a fluid environment. For example, most of the antibodies can be found in blood, saliva, serum or plasma. Applicant recites the method can be applied to all biological materials. The instant disclosure does not provide support in commensurate with such scope. In view of the examples given in the specification, Applicant merely uses serum or plasma samples (See

Examples 1-6). With respect to food or dietary materials, particularly in Example 6 "Sialic Acids in Food Samples", Applicant merely measured the contents of antigen (not antibody) of Neu5Gc. Section 0078 (PG-publication), Applicant concluded "Aliquots were derivatized with DMB and Neu5Gc content analyzed by HPLC and MS as described above" (emphasis added). This can be further confirmed by the data listed in Table 2 where the percentage of Neu5Gc contents are recorded in various food samples, ranging from Cod, Salmonto Beef (See Table 2). In addition, section 0081, Applicant continued to state "As shown in Table 2, the highest amount was found in lamb, pork and beef". Thus, it is believed that these data reflect not the amount of antibodies of Neu5Gc, but the amount of antigen Neu5Gc.

Allowable Subject Matter

8. Claims 7 and 18 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

Conclusion

9. No claim is allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JACOB CHEU whose telephone number is (571)272-0814. The examiner can normally be reached on 9:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Shibuya can be reached on 571-272-0806. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Jacob Cheu/
Examiner, Art Unit 1641